

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 2001	Park: Shenandoah NP
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Permit#: SHEN-2001-SCI-0007	
Park-assigned Study Id. #: SHEN-00231	
Project Title: Long Term Recovery Of Macroinvertebrate Populations After A 500 Year Flood Event In Shenandoah National Park	
Permit Start Date: Apr 01, 2001	Permit Expiration Date Dec 31, 2001
Study Start Date: Apr 01, 2001	Study End Date Dec 31, 2002
Study Status: Continuing	
Activity Type: Research	
Subject/Discipline: Ecology (Aquatic, Marine, Terrestrial)	
Objectives: In June 1995, a major flood occurred on the Staunton River. The flood dropped over 30 inches of rain in a two-day period. The flood and associated landslides killed or displaced most of the aquatic biota over a two-kilometer reach of stream. USGS scientists, in cooperation with other scientists working in the park, are conducting a three-year research study aimed at improving our understanding of the long-term ecological consequences and recovery of stream ecosystems to catastrophic disturbances. The specific objectives of our work are to assess and compare aquatic macroinvertebrate assemblage structure and secondary productivity at sites 1) within the impacted zone on the Staunton River, 2) sites upstream of the impacted zone on the Staunton River, and 3) sites on White Oak Canyon Run, an ecologically similar stream that was unaffected by the flood.	
Findings and Status: We collected nearly 2000 aquatic macroinvertebrate samples over the three years. Sample collection and processing is complete and much of the data analysis has been completed.	
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? Yes	
Funding provided this reporting year by NPS: 0	Funding provided this reporting year by other sources: 0
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college	
Full name of college or university:	Annual funding provided by NPS to university or college this reporting

n/a	year: 0
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